

NOTICE OF DRAFTPERSON'S  
PATENT DRAWING REVIEWThe drawing filed (insert date) 12/18/98 are:

A.  not objected to by the Draftperson under 37 CFR 1.84 or 1.152.

B.  objected to by the Draftperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require submission of new, corrected drawings where necessary. Corrected drawings must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:  
Black ink. Color.  
 Color drawing are not acceptable until petition is granted.  
 Fig.(s) \_\_\_\_\_  
 Pencil and non black ink is not permitted. Fig(s) \_\_\_\_\_

2. PHOTOGRAPHS. 37 CFR 1.84(b)  
 Photographs are not acceptable until petition is granted,  
 3 full-tone sets are required. Fig(s) \_\_\_\_\_  
 Photographs not properly mounted (must bristol board or photographic double-weight paper). Fig(s) \_\_\_\_\_  
 Poor quality (half-tone). Fig(s) \_\_\_\_\_

3. TYPE OF PAPER. 37 CFR 1.84(e)  
 Paper not flexible, strong, white and durable.  
 Fig.(s) \_\_\_\_\_  
 Erasures, alterations, overwritings, interlineations, folds, copy machine marks not acceptable. (too thin)  
 Mylar, vellum paper is not acceptable (too thin).  
 Fig(s) \_\_\_\_\_

4. SIZE OF PAPER. 37 CFR 1.84(F): Acceptable sizes:  
 21.0 cm by 29.7 cm (DIN size A4)  
 21.6 cm by 27.9 cm (8 1/2 x 11 inches)  
 All drawings sheets not the same size.  
 Sheet(s) \_\_\_\_\_

5. MARGINS. 37 CFR 1.84(g): Acceptable margins:  
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  
SIZE: A4 Size  
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  
SIZE: 8 1/2 x 11  
 Margins not acceptable. Fig(s) \_\_\_\_\_  
 Top (T)  Left (L)  
 Right (R)  Bottom (B)

6. VIEWS. CFR 1.84(h)  
REMINDER: Specification may require revision to correspond to drawing changes.  
 Views connected by projection lines or lead lines.  
 Fig.(s) \_\_\_\_\_

Partial views. 37 CFR 1.84(h)(2)  
 Brackets needed to show figure as one entity.  
 Fig.(s) \_\_\_\_\_  
 Views not labeled separately or properly.  
 Fig.(s) \_\_\_\_\_  
 Enlarged view not labeled separately or properly.  
 Fig.(s) \_\_\_\_\_

7. SECTIONAL VIEWS. 37 CFR 1.84(b)(3)  
 Hatching not indicated for sectional portions of an object.  
 Fig.(s) \_\_\_\_\_  
 Sectional designation should be noted with Arabic or Roman numbers. Fig.(s) \_\_\_\_\_

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)  
 Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned, so that the top becomes the right side, except for graphs. Fig.(s) \_\_\_\_\_  
 Views not on the same plane on drawing sheet. Fig.(s) \_\_\_\_\_

9. SCALE. 37 CFR 1.84(k)  
 Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.  
 Fig.(s) \_\_\_\_\_

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)  
 Lines, numbers & letters not uniformly thick and well defined, clean, durable and black (poor line quality).  
 Fig.(s) 10

11. SHADING. 37 CFR 1.84(m)  
 Solid black areas pale. Fig.(s) \_\_\_\_\_  
 Solid black shading not permitted. Fig.(s) \_\_\_\_\_  
 Shade lines, pale, rough and blurred. Fig.(s) \_\_\_\_\_

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.48(p)  
 Numbers and reference characters not plain and legible.  
 Fig.(s) \_\_\_\_\_  
 Figure legends are poor. Fig.(s) \_\_\_\_\_  
 Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(3) Fig.(s) \_\_\_\_\_  
 English alphabet not used. 37 CFR 1.84(p)(3) Fig.(s) \_\_\_\_\_  
 Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig.(s) \_\_\_\_\_

13. LEAD LINES. 37 CFR 1.84(q)  
 Lead lines cross each other. Fig.(s) \_\_\_\_\_  
 Lead lines missing. Fig.(s) \_\_\_\_\_

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.48(t)  
 Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Fig.(s) \_\_\_\_\_

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  
 Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig.(s) \_\_\_\_\_

16. CORRECTIONS. 37 CFR 1.84(w)  
 Corrections not made from PTO-948 dated \_\_\_\_\_

17. DESIGN DRAWINGS. 37 CFR 1.152  
 Surface shading shown not appropriate. Fig.(s) \_\_\_\_\_  
 Solid black shading not used for color contrast.  
 Fig.(s) \_\_\_\_\_

## COMMENTS

REVIEWER JH DATE 2/4/99 TELEPHONE NO. 703 305 0895

ATTACHMENT TO PAPER NO. \_\_\_\_\_

PTO COPY